

FIGURE 1

1	aattgtcagc	acgggatctg	agacttccaa	aaa <u>atga</u> agc	cggcgacagg	actttgggtc
61	tgggtgagcc	ttctcgtggc	ggcggggacc	gtccagccca	gcgattctca	gtcagtggtg
121	gcaggaacgg	agaataaaact	gagctctctc	tctgacctgg	aacagcagta	ccgagccttg
5	181	cgcaagtact	atgaaaactg	tgaggttgtc	atgggcaacc	tggagataac
	241	cacaaccggg	acctctcctt	cctgcggtct	gttcgagaag	tcacaggcta
	301	gctcttaatc	agtttcgtta	cctgcctctg	gagaatttac	gcattattcg
	361	ctttatgagg	atcgatatgc	cttggcaata	tttttaaact	acagaaaaga
	421	ggacttcaag	aacttggatt	aaagaacttg	acagaaatcc	taaatggtgg
10	481	gaccagaaca	aattcctttg	ttatgcagac	accattcatt	ggcaagatat
	541	ccatggcctt	ccaacttgac	tcttgtgtca	acaaatggta	gttcaggatg
	601	cataagtcct	gtactggccg	ttgctgggga	cccacagaaa	atcattgcca
	661	aggacggtgt	gtgcagaaca	atgtgacggc	agatgctacg	gaccttacgt
	721	tgccatcgag	aatgtgctgg	aggctgtctc	ggacctaagg	acacagactg
15	781	atgaatttca	atgacagtgg	agcatgtgtt	actcagtgtc	cccaaaccctt
	841	ccaaccacct	ttcaactgga	gcacaatttc	aatgcaaagt	acacatatgg
	901	gtcaagaaat	gtccacataa	ctttgtggta	gattccagtt	cttgtgtgcg
	961	agttccaaga	tggaagtaga	agaaaatggg	attaaaatgt	gtaaaccttg
20	1021	tgcccaaaaag	cttgtgatgg	cattggcaca	ggatcattga	tgtcagctca
	1081	tccagtaaca	ttgacaaaat	cataaactgt	accaaagatca	atgggaattt
	1141	gtcactggta	ttcatgggga	cccttacaat	gcaattgaaag	ccatagaccc
	1201	aacgtctttc	ggacagtcag	agagataaca	ggtttcctga	acatacagtc
	1261	aacatgactg	acttcagtgt	tttttctaac	ctggtgacca	ttggtggaag
	1321	agtggcctgt	ccttgcttat	cctcaagcaa	cagggcatca	cctctctaca
25	1381	ctgaaggaaa	tcagcgcagg	aaacatctat	attactgaca	acagcaacct
	1441	cataccatta	actggacaac	actcttcagc	acaatcaacc	agagaatagt
	1501	aacagaaaag	ctgaaaattg	tactgctgaa	ggaatggtgt	gcaaccatct
	1561	gatggctgtt	ggggacctgg	gccagaccaa	tgtctgtcgt	gtcgccgctt
	1621	aggatctgca	tagagtcttg	taacctctat	gatggtgaat	ttcgggagtt
30	1681	tccatctgtg	tggagtgtga	cccccagtgt	gagaagatgg	aagatggcct
	1741	catggaccgg	gtcctgacaa	ctgtacaaag	tgctctcatt	ttaaagatgg
	1801	gtggaaaaat	gtccagatgg	cttacagggg	gcaaacagtt	tcattttcaa
	1861	ccagatcggg	agtgccaccc	atgccatcca	aactgcaccc	aagggtgtaa
	1921	agtcatgact	gcatttacta	cccattggacg	ggccattcca	ctttaccaca
	1981	actcccttga	ttgcagctgg	agtaatttgt	gggctcttca	ttctgggtcat
	2041	acatttgctg	tttatgttag	aaggaagagc	atcaaaaaaga	aaagagcctt
	2101	ttggaacacg	agttggtgga	accattaact	cccagtggca	cagcacccaa
	2161	cttcgtattt	tgaagaaaac	tgagctgaag	agggtaaaaag	tccttggctc
35	2221	ggaacggttt	ataaagggtat	ttgggtacct	gaaggagaaa	ctgtgaagat
	2281	attaagattc	ttaatgagac	aactggtccc	aaggcaaagt	tggagttcat
	2341	ctgatcatgg	caagtatgga	tcattccacac	ctagtccggt	tgctgggtgt
	2401	ccaaccatcc	agctggttac	tcaacttatg	ccccatggct	gcctgttgga
	2461	gagcacaagg	ataacatttg	atcacaactg	ctgcttaact	ggtgtgtcca
40	2521	ggaatgatgt	acctggaaga	aagacgactc	gttcacgagg	atttggcagc
	2581	ttagtgaatc	ctccaaacca	tgtgaaaatc	acagattttg	ggctagccag
45	2641	ggagatgaaa	aagagtacaa	tgctgatgga	ggaaagatgc	caattaaatg
	2701	gagtgatatac	attacaggaa	attcaccat	cagagtgcag	tttgagacta
	2761	atatgggaac	tgatgacctt	tggaggaaaa	ccctatgatg	gaattccaac
	2821	cctgatttat	tagagaaagg	agaacgtttg	cctcagcctc	ccatctgcac
50	2881	tacatggtca	tgggtcaaatg	ttggatgatt	gatgctgaca	gtagacctaa
	2941	ctggctgctg	agttttcaag	gatggctcga	gaccctcaaa	gatacctagt
	3001	gatgatcgta	tgaagcttcc	cagtccaaat	gacagcaagt	tctttcagaa
	3061	gaagaggatt	tggaagatat	gatggatgct	gaggagtact	tggtccttca
	3121	atcccacctc	ccatctat	ttccagagca	agaattgact	cgaataggag
55	3181	cacagccctc	ctcctgccta	cacccccatg	tcaggaaacc	agtttgata
	3241	ggttttgctg	ctgaacaagg	agtgtctgtg	ccctacagag	ccccactag
	3301	gaagctcctg	tggcacaggg	tgctactgct	gagatttttg	atgactcctg
	3361	accctacgca	agccagtggc	accccatgtc	caagaggaca	gtagaccca
	3421	gctgaccca	ccgtgtttgc	cccagaacgg	agcccacgag	gagagctgga
60	3481	tacatgactc	ctatgcgaga	caaaccctaaa	caagaatacc	tgaatccagt
						ggaggagaac

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3541	cctttttgttt	ctcggagaaa	aaatggagac	cttcaagcat	tggataatcc	cgaatatcac
3601	aatgcatcca	atgggtccacc	caaggccgag	gatgagtatg	tgaatgagcc	actgtacctc
3661	aacacctttg	ccaacacctt	gggaaaagct	gagtacctga	agaacaacat	actgtcaatg
3721	ccagagaagg	ccaagaaagc	gtttgacaac	cctgactact	ggaaccacag	cctgccacct
3781	cggagcaccc	ttcagcaccc	agactacctg	caggagtaca	gcacaaaata	tttttataaa
3841	cagaatgggc	ggatccggcc	tattgtggca	gagaatcctg	aatacctctc	tgagttctcc
3901	ctgaagccag	gcactgtgct	gccgcctcca	ccttacagac	accggaatac	tgtgggtgtaa
3961	gctcagttgt	ggtttttttag	gtggagagac	acacctgctc	caatttcccc	acccccctct
4021	ctttctctgg	tggtcttctt	tctaccccaa	ggccagtagt	tttgacactt	cccagtgga
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4141	gaaagagaaa	gataggagga	accacaatgt	ttcttcattt	ctctgcatgg	gttggtcagg
4201	agaatgaaac	agctagagaa	ggaccagaaa	atgtaaggca	atgctgccta	ctatcaaact
4261	agctgtcact	ttttttcttt	ttctttttct	ttctttgttt	ctttcttctt	cttctttttt
4321	tttttttttt	taaagcagat	ggttgaaaca	cccatgctat	ctgttcttat	ctgcaggaa
4381	tgatgtgtgc	atattttagca	tccctggaaa	tcataataaa	gtttccatta	gaacaaaaga
4441	ataacatttt	ctataacata	tgatagtgtc	tgaaattgag	aatccagttt	ctttccccag
4501	cagtttctgt	cctagcaagt	aagaatggcc	aactcaactt	tcataattta	aaaatctcca
4561	ttaaagttat	aactagtaat	tatgttttca	acactttttg	gtttttttca	ttttgttttg
4621	ctctgaccga	ttcctttata	tttgctcccc	tatttttggc	tttaatttct	aattgcaaag
4681	atgtttacat	caaagcttct	tcacagaatt	taagcaagaa	atattttaat	atagtgaat
4741	ggccactact	ttaagtatac	aatcttttaa	ataagaaagg	gaggctaata	tttttcatgc
4801	tatcaaatta	tcttcaccct	cattcctttac	atttttcaac	attttttttt	ctccataaat
4861	gacactactt	gataggccgt	tggttgtctg	aagagtagaa	gggaaactaa	gagacagttc
4921	tctgtgggtt	aggaaaacta	ctgatacttt	caggggtggc	ccaatgaggg	aatccattga
4981	actggaagaa	acacactgga	ttgggtatgt	ctacctggca	gatactcaga	aatgtagttt
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5161	gataaagact	gtggaaatgc	caaaccaagc	aaattaggaa	ccttgcaacg	gtatccaggg
5221	actatgatga	gaggccagca	cattatcttc	atatgtcacc	tttgctacgc	aaggaaattt
5281	gttcagttcg	tatacttcgt	aagaaggaa	gcgagtaagg	attggcttga	attccatgga
5341	atttctagta	tgagactatt	tatatgaagt	agaaggtaac	tctttgcaca	taaattggta
5401	taataaaaaag	aaaaacacaa	acattcaaa	cttagggata	ggtccttggg	tcaaaagtgt
5461	taaataaatg	tgaacatct	tctc			

FIGURE 2

MKPATGLWVWVSLVAAGTVQPSDSQSV CAGTENKLSSLS DLEQQYRALRKY YENCEVVMGN
LEITSIEHNRDLSFLRSVREVTGYVLVALNQFRYLPLENLRIIRGTKLYEDRYALAI FLNYR
5 KDGNFGLQELGLKNL TEILNGGVYVDQNKFLCYADTIHWQDIVRNPWPSNLTLVSTNGSSGC
GRCHKSCTGRCWGPTENHCQTLTRTVCAEQCDGRCYGPYVSDCCHRECAGGCSGPKD TDCFA
CMNFND SGACVTQCPQTFVYNPTTFQLEHNFN AKYTYGAF CVKKCPHNFVVDSSSCVRACPS
SKMEVEENGIMCKPCTD ICPKACDGIGTGSLMSAQTV DSSNIDKF INCTKINGNLI FLVTG
10 IHGDPYNAIEAIDPEKLN VFRTVREITGFLNIQSWPPNMTDFSVFSNLVTIGGRVLYSGLSL
LILKQQGITSLOFQSLKEISAGNIYITDNSNLCYYHTINWTTLFSTINQRIVIRDNRKAENC
TAEGMVCNHLCS SDGCWGPDPDQCLSCRRFSRGRICIESCNLYDGEFREFENGSI CVECDPQ
CEKMEDGLLTCHGPGPDNCTKCSHFKDGPNCVEKCPDGLQGANSFI FKYADPDRECHPCHPN
CTQGCNGPTSHDCIYYPWTGHSTLPQHARTPLIAAGVIGGLFILVIVGLTFAVYVRRKSIKK
15 KRALRRFLETELVEPLTPSGTAPNQAQLRILKETELKRVKVLGSGAFGT VYKGIWVPEGETV
KIPVAIKILNETTGPKANVEFMDEALIMASMDHPLVRL LGVCLSP TIQLVTQLMPHGCLLE
YVHEHKDNIGS QLLLWCVQIAKGMMYLEERRLVHRDLAARNVLVKSPNHVKITDFGLARLL
EGDEKEYNADGGKMPIKWMAL ECIHYRKFTHQSDVWSYGV TIWELMTFGGKPYDGIPTREIP
DLLEKGERLPQPP ICTIDVYVMVKCWMIDADSRPKFKELAAEF SRMARDPQRYLVIQGGDR
20 MKLPSPND SKFFQNL LDEEDLEDMDAE EYLVPQAFNIPPPIYTSRARIDS NRSEIGHSPPP
AYTPMSGNQFVYRDGGFAAEQGVSVPYRAP TSTIPEAPVAQGATAE IFDDSCCNGTLRK PVA
PHVQEDSSTQRY S ADPTVFAPERSPRGELDEEGYMT PMRDKPKQEYLN PVEENPFVSRRKNG
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HRNTVV

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T04280"TOT046

FIGURE 3

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ccaatcgattttcgcggaagaccttccggtccttgaccagctgctcgagcagctggtggtgcaggaa
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gggaacgtcttctcatgctccgtgatgcatgaggctctgcacaaccactacacgcagaagagcctctc
cctgtctccgggtaaat

FIGURE 4

QSV CAGTENKLSSLS DLEQQYRALRKY YENCEVVMGNLEITSIEHNRDLSFLRSVREVTGYV
LVALNQFRYLPLENLR IIRGTKLYEDRYALAI FLNRYRKDGNFGLQELGLKNLTEILNGGVYV
DQNKFLCYADTIHWQDIVRNPWPSNLTLVSTNGSSGGRCHK SCTGRCWGPTENHCQTLTRT
VCAEQCDGRCYGPYVSDCCHRECAGGCSGPKD TDCFACMNFND SGACVTQCPQT FVYNPTTF
QLEHNFNAKYTYGAFCVKKCPHNFVVDSSSCVRACPSSKMEVEENG IKMCKPCTDICPKACD
GIGTGSLMSAQTV DSSNIDKFINCTKINGNLI FLVTGIHGDPYNAIEAIDPEKLN VFTVRE
ITGFLNIQSWPPNMTDFSVFSNLVTIGGRVLYSGLSLLILKQQGITS LQFQSLKEISAGNIY
ITDNSNLCYYHTINWTTLFSTINQRIVIRDNRKAENCTAEGMVCNHL CSSDGCWGP GPDQCL
SCRRFSRGRICIESCNLYDGEFREFENG SICVECDPQCEK MEDGLLTCHGPGPDNCTKCSHF
KDGPNCVEKCPDGLQGANSFIFKYADPDRECHPCHPNCTQGCNGPTSHDCIYYPWTG

W:\DOCS\GRD\FIGURES-GENENT.072A2
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0940101-082701

1042290-1042650

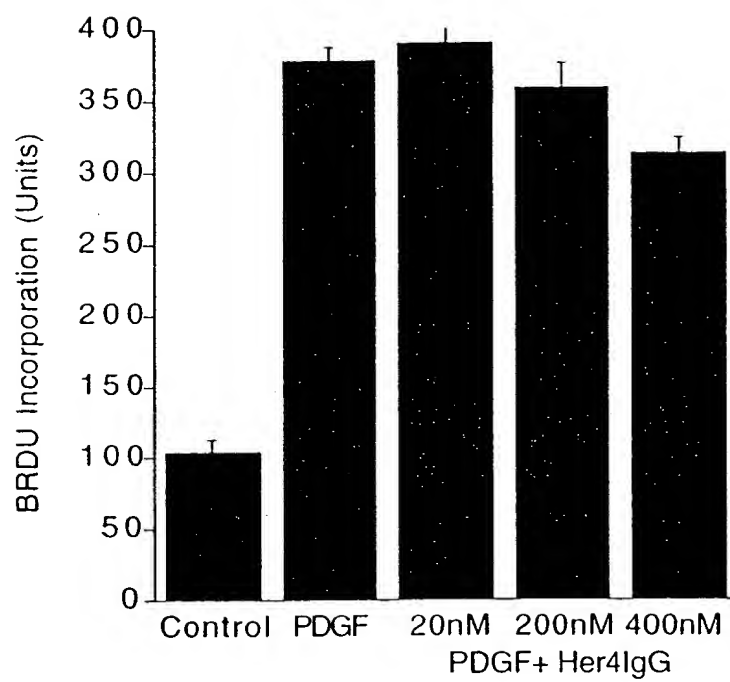


FIG. 5

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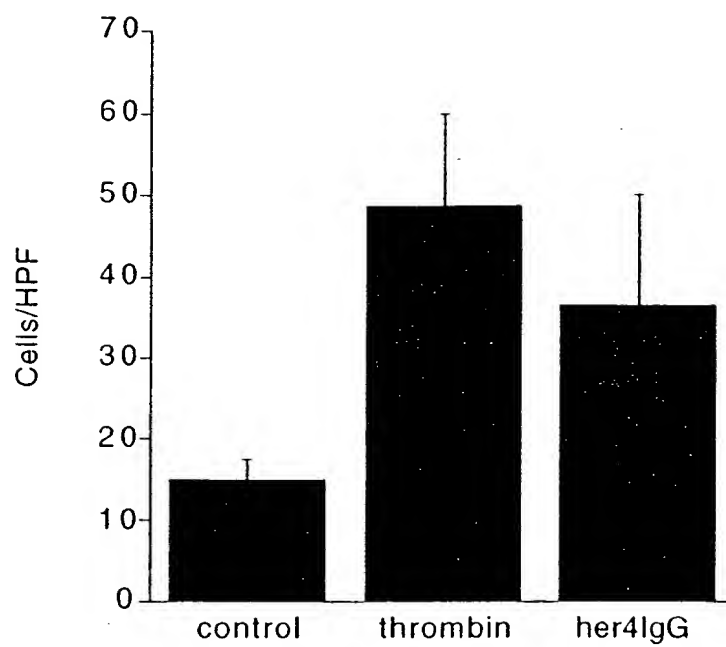


FIG. 6

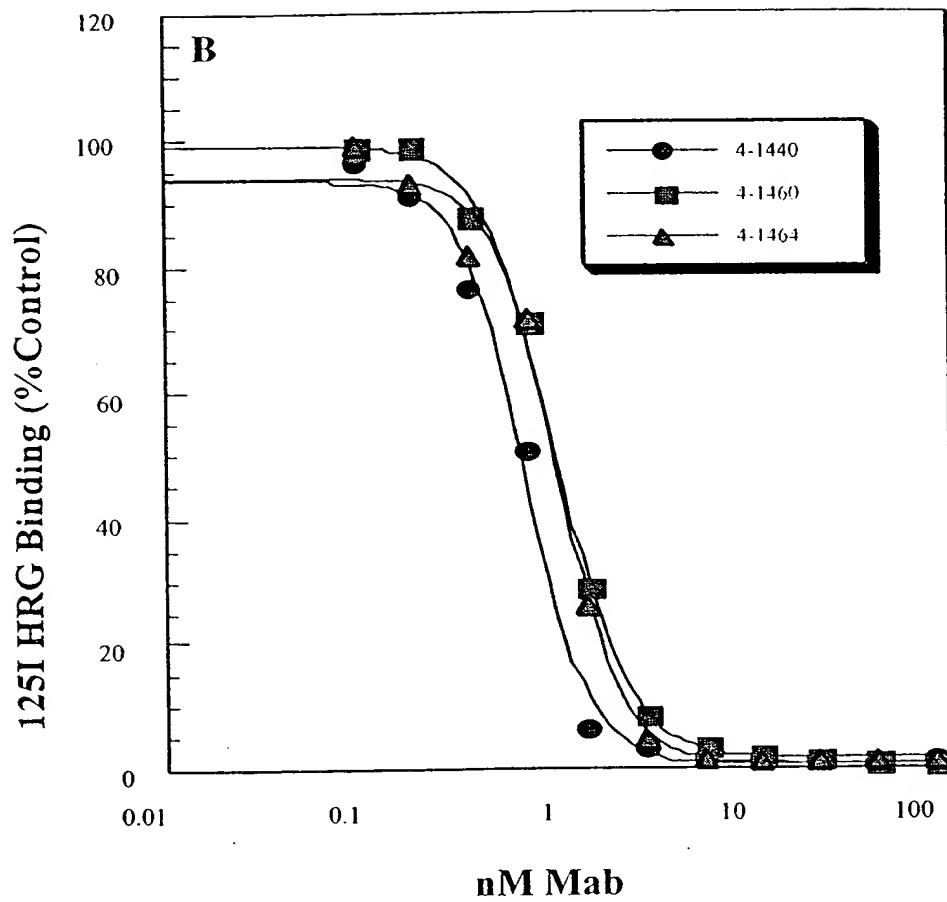


FIG. 7